

APPENDIX 4A

Study	Year	Lesion Location (talus)	Number of Lesions	Average Size of Lesion (SD/Range)
Backus <i>et al.</i> ⁴⁷	2012	Medial, Lateral, Central, Unknown	34(M), 27(L), 1 (C), 1 (unknown)	70.7 mm ² (6 – 314mm ²)
Becher <i>et al.</i> ⁴⁸	2010	Medial, Lateral, Bilateral	21(M), 6(L), 3(M+L)	Mean NR (50 - 200 mm ²)
Becher <i>et al.</i> ⁴⁹	2005	Medial, Lateral, Bilateral	30 (M), 11 (L), 4 (M+L)	Mean NR (50 - 200 mm ²)
Chuckpaiwong <i>et al.</i> ⁵⁰	2008	Medial, Lateral, Bilateral, Tibial involvement (global).	30 (M), 24 (L), 32 (M+L), 19 (T)	3.5mm ² (2.6, n=74); 21.6mm ² (3, n=31)
Cuttica <i>et al.</i> ⁵¹	2012	Anterior lateral, Anterior central, Medial central, Posterior central, Central, Posterior medial.	4 (AL), 3 (AC), 2 (MC), 2 (PC), 1 (C), 1 (PM)	<100mm ² (n=7); <100 mm ² (n=6)
Doral <i>et al.</i> ⁵²	2012	Lateral, Medial	41 (M), 16 patients (L)	<20 mm diameter (not further specified)
Gobbi <i>et al.</i> ⁵³	2006	Lateral, Medial	7 (L), 3 (M)	450mm ² (150-800mm ²)
Guney <i>et al.</i> ⁵⁴	2013	Medial	7, 11 (R); 13,12 (M)	NR
Guo <i>et al.</i> ⁵⁵	2010	Medial, Lateral, Bilateral	39 (M), 7 (L), 2 (M+L), Total: 50	10.9mm (2.7; n=35); 14.2 (4.7; n=8), note these are diameters
Jung <i>et al.</i> ⁵⁶	2011	Medial 91%, Lateral 9%. Centromedial, Posteromedial	12 (CM), 7 (PM)	median 76 mm ² (12-212mm ²)
Kuni <i>et al.</i> ⁵⁷	2012	Lateral, Medial	6 (L), 16 (M)	377 mm ³ (median interquartile distance: 417mm ³)
Lee, DH <i>et al.</i> ⁵⁸	2012	Lateral, Medial	35(85%)/33(82.5%) (M); 6(15%)/7(17.5%) (L) [DWB/EWB]	DWB (10 mm ² (60-180mm ²); EWB 10 mm ² (60-190mm ²)
Lee, KB <i>et al.</i> ⁵⁹	2010	Lateral, Medial	29 (M), 6 (L)	90 mm ² (60-140mm ²)
Lee, KB <i>et al.</i> ⁶⁰	2009	Posteromedial, Anterolateral	16 (PM), 4(AL)	90 mm ² (60-130mm ²)
Li <i>et al.</i> ⁶¹	2014	Lateral, Medial	46 (M), 12 (L)	<200mm ²
Park <i>et al.</i> ⁶²	2015	Lateral, Medial	53 ^{Ch} (M), 5 ^{Ch} (L); 39 ^{OC} (M), 7 ^{OC} (L)	Ch 93.5 mm ² (83-104mm ²); OC: 110.3 mm ² (98.9-121.7mm ²)
Sallakh <i>et al.</i> ⁶³	2012	Lateral, Medial	20 (M), 5 (L)	11 mm ² (7-15mm ²)
Saxena <i>et al.</i> ⁶⁴	2007	Anterolateral, Anteromedial, Centromedial, Posterolateral, Central	12 (AL), 9 (AM), 3 (CM), 1 (PL), 1 (C)	NR
van Bergen <i>et al.</i> ⁶⁵	2013	Centromedial talus, Centrolateral talus	25 (CM), 25 (CL)	

				641.2mm ³ (38.8mm ³)
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APPENDIX 4B

Outcome Measure	Number of Patients Contributing EWB Data OR # of studies contributing EWB data	EWB Score	Number of Patients Contributing DWB Data OR # of studies contributing DWB data	DWB Score
AAS	145	3.61 (3.30 to 3.96)	75	3.00 (2.65 to 3.35)
AOFAS	401	21.72 (20.00 to 23.01)	270	22.22 (19.94 to 24.50)
VAS pain	337	-4.39 (-4.70 to -3.14)	253	-4.49 (-5.03 to -3.94)

APPENDIX 4C

Study	Year	Complications	Reoperations Required
Backus <i>et al.</i> ⁴⁷	2012	NR	NR
Becher <i>et al.</i> ⁴⁸	2010	0	4 revision surgeries for cartilage abnormalities
Becher <i>et al.</i> ⁴⁹	2005	5: 3. Anteroimpingement symptoms; 2. temporary hyposensitivity in deep peroneal nerve distribution	3 osteophyte removal surgeries
Chuckpaiwong <i>et al.</i> ⁵⁰	2008	11: 4. Post-operative stiffness; 3. superficial deep venous thrombosis; 2. Complex Regional Pain Syndrome; 1. chronic superficial peroneal neuritis; 1. deep infection	19: 17. Repeat debridement and microfracture; 2 manipulation under anesthetic.
Cuttica <i>et al.</i> ⁵¹	2012	0	3 required repeat surgery: Repeat microfracture, synthetic osteochondral plug removal with repeat microfracture, OATS procedure for cystic defect.
Doral <i>et al.</i> ⁵²	2012	0	0
Gobbi <i>et al.</i> ⁵³	2006	4: 2. post-operative stiffness; 2. Post-operative pain	3: 2. revision arthroscopic debridement; 1. revision arthroscopic chondroplasty and synovectomy
Guney <i>et al.</i> ⁵⁴	2013	NR	NR
Guo <i>et al.</i> ⁵⁵	2010	0	0

Jung <i>et al.</i> ⁵⁶	2011	1 superficial peroneal nerve neuralgia	NR
Kuni <i>et al.</i> ⁵⁷	2012	NR	NR
Lee, DH <i>et al.</i> ⁵⁸	2012	0	0
Lee, KB <i>et al.</i> ⁵⁹	2010	0	0
Lee, KB <i>et al.</i> ⁶⁰	2009	0	0
Li <i>et al.</i> ⁶¹	2014	NR	NR
Park <i>et al.</i> ⁶²	2015	None	None
Sallakh <i>et al.</i> ⁶³	2012	1 Superficial wound infection	0
Saxena <i>et al.</i> ⁶⁴	2007	0	1 arthroscopic revision
van Bergen <i>et al.</i> ⁶⁵	2013	4 hypoesthesias	6: 5. arthroscopic debridement; 1. open debridement